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(54) CHITOSAN SPONGE

(57) Abstract

PURPOSE: To provide the titled sponge insoluble in water and dilute aqueous solution of acetic acid, having a specific porosity, high wet strength and excellent hemostatic effect, resistant to dissolution in the fluid exuded from wound and useful for the protection of wound or for external hemostatic use.

CONSTITUTION: A chitosan sponge insoluble in water and 2% aqueous solution of acetic acid and having a porosity of $\approx 80\%$ is produced by (1) dissolving (A)

chitosan powder produced e.g. by deashing and deproteinizing the crust of crab, shrimp, etc., and removing N-acetyl group from the resultant chitin in (B) usually 1W5wt% dilute aqueous solution of acetic acid at a concentration of 1W10% and (2) coagulating the obtained chitosan solution in the form of a porous material. The spongy structure can be maintained over a long period even in the case of applying to a wound exuding much exudate fluid, e.g. deep apellous wound and the accumulation of the exudate fluid can be prevented.

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